

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 202 (Largo Road) and Landover HS Entrance / Prince George's Comm Col Entrance in Prince Georges' County. All signal heads shall be changed to Black Faced, install count down peds, rewiring of this intersection and installation of a new base mounted cabinet and controller . MD 202 (Largo Road) is assumed to run an east-west direction.

1. The intersection shall continue to operate in a NEMA four-phase, fully-actuated mode, with the MD 202 (Largo Road) approaches continuing to run concurrent. Exclusive left turn phases shall remain in operation for the westbound approach of MD 202 (Largo Road). A pedestrian phase with pushbutton actuation shall remain in operation on the east side of MD 202 (Largo Road). Left turn lanes on the east side shall continue to be provided on the west leg of this intersection. The Prince George's Comm Col Entrance approaches shall also continue to run in its own phase.
2. A new full-traffic-actuated, eight-phase controller with two (2) four channel, rack mount loop detector amplifiers and video detection shall be installed.

1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9001	Detector rack power supply (To be installed by SHA forces)	1 EA
9016	4 Channel detector amplifier.	2 EA
9042	Controller ASC II with telemetry	1 EA
9044	Controller cabinet, size "6"	1 EA
9571	Sheet aluminum signs to consist of: (mast arm mount)	8 SF
	R3-5L "LEFT TURN ONLY" sign, (30" x 36") mast arm mount.	1 EA

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY	
1001	Maintenance of Traffic.	2	EA
2002	Test pit Excavation.	1	CY
5001	5" heat applied white permanent	175	L.F.
5006	24" heat applied white permanent preformed thermoplastic pavement marking	50	L.F.
5007	Heat applied white permanent preformed thermoplastic pavement marking letters	4	EA
5008	Heat applied white permanent preformed thermoplastic pavement marking arrows	6	EA
8001	Concrete foundation	2	CY
8009	Furnish and install control cable 300', video detection	1	EA
8010	Furnish and install control cable 400', video detection	1	EA
8011	Furnish and install control cable 500', video detection	1	EA
8019	Remove & dispose of material and equipment per assignment.	1	EA
8024	Disconnect, pull back & reroute cable.	350	L.F.
8030	Furnish and install No. 6 AWG stranded bare copper ground wire.	2355	L.F.
8037	Furnish and install 4" schedule 80 rigid polyvinyl chloride - bared.	260	L.F.
8038	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenched.	180	L.F.
8039	Furnish and install 3" schedule 80 rigid polyvinyl chloride - trenched.	150	L.F.
8040	Furnish and install 4" schedule 80 rigid polyvinyl chloride - trenched.	200	L.F.
8046	Furnish and install electrical utility service equipment (120/240 V, 1 phase 3 wire system).	1	EA

The contact persons for District #3 (Prince George's County) are as follows:

Mr. Majid Shakib
Assistant District Engineer - Traffic
Phone: (301 513-7358

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
Assistant District Engineer - Utility
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

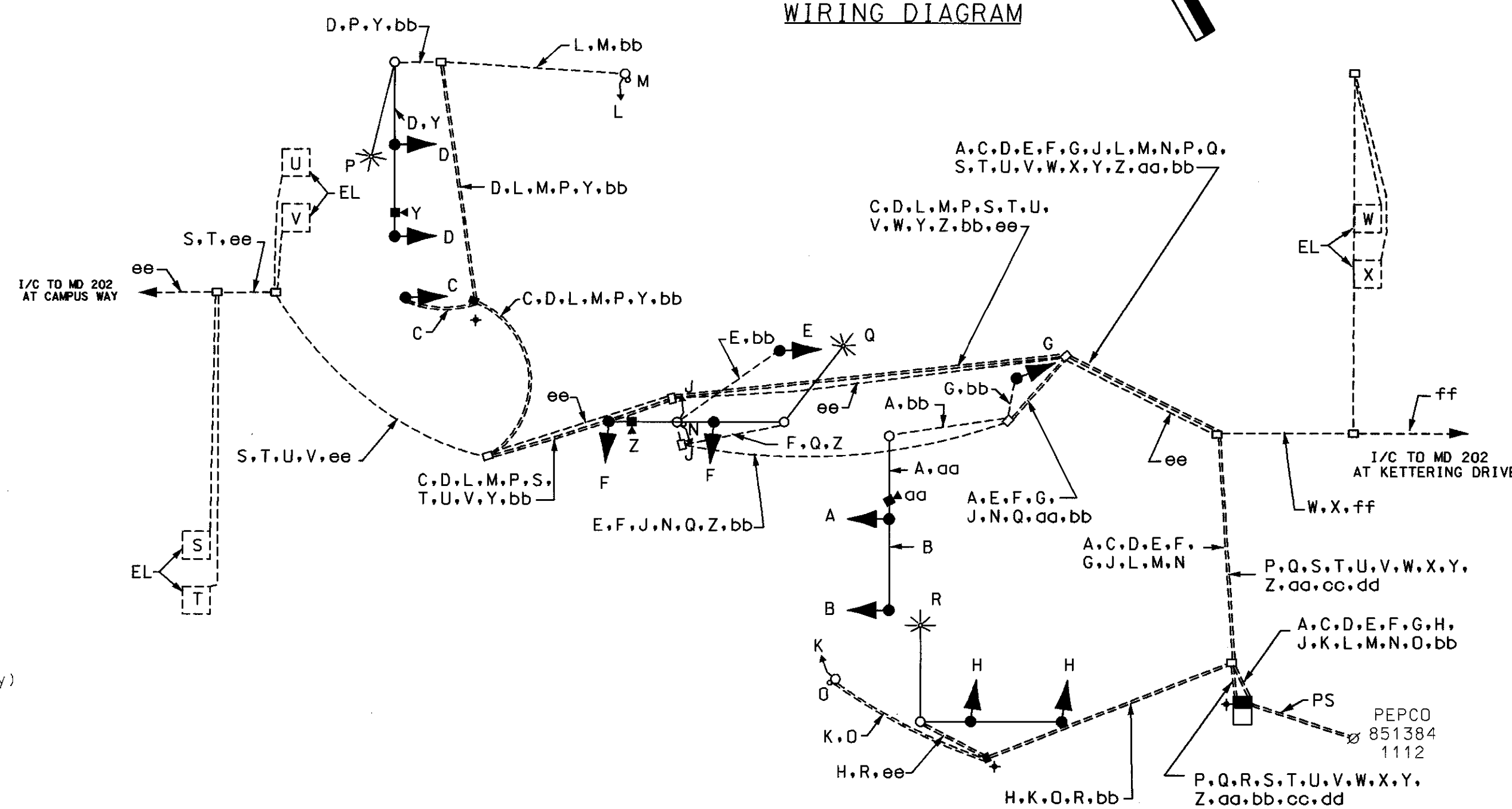
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
8047	Furnish and install electrical cable - conductor No. 4 AWG THHN/THWN.	165 L.F.
8053	Furnish and install electrical handhole.	2 EA
8057	Furnish and install video detection camera	3 EA
8074	Furnish and install ground rod - 3/4" x 10'.	3 EA
8076	12" Vehicular Signal Head Section. (Black faced)	24 EA
8077	12" Optically Programmed Signal Head Section (Black faced)	9 EA
8081	Furnish and install electrical cable - 2 conductor (aluminum shielded) (No. 14 AWG)	2500 L.F.
8082	Furnish and install electrical cable - 2 conductor (No. 14 AWG).	795 LF
8083	Furnish and install electrical cable - 3 conductor (No. 14 AWG).	520 LF
8084	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	1990 LF
8085	Furnish and install electrical cable - 7 conductor (No. 14 AWG).	225 LF
8086	Furnish and install tray cable - 2 conductor (No. 12 AWG).	890 LF
8089	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS LARGE RD.")	3 EA
8095	Install Controller and Cabinet - base mount	1 EA
Neg.	Furnish and install 12" pedestrian signal head (Countdown)(Black faced)	4 EA

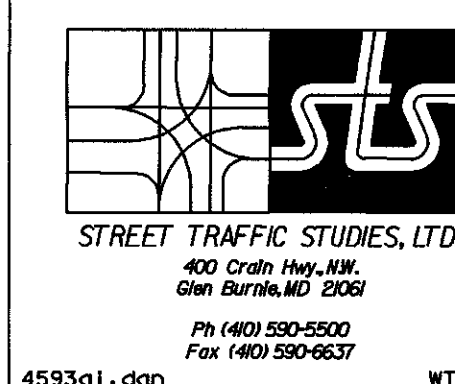
SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FOR THE CONTROLLER CABINET. CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

THERE IS NO CHANGE TO INTERSECTION PHASING

WIRING DIAGRAM



CONDUCTOR	A	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
	B	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
	K	3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
	NZ	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
TRAY	P	2-CONDUCTOR TRAY CABLE (NO. 12 A.W.G.)
	S	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
VIDEO	Y	VIDEO DETECTION CABLE
	Z	VIDEO DETECTION CABLE
	aa	VIDEO DETECTION CABLE
	bb	STRANDED BARE COPPER WIRE (NO. 6 A.W.G.)
VOICE	cc	REROUTED 12-PAIR VOICE INTERCONNECT CABLE
	ee	EXISTING 12-PAIR VOICE INTERCONNECT CABLE
WIRE	EL	LOOP WIRE (NO. 14 A.W.G.) EXISTING
	PS	PROPOSED UNDERGROUND SYSTEM TO BE INSTALLED BY PEPPER
	+	GROUND ROD



 MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 202 AND LARGO H.S./P.G. COMM. CLG.

SHA#: PG1617A52/B52 TID #: AT386-04

DRAWN BY: R. C.
CHECKED BY: J. Allen Jr.
SCALE: NONE
DATE: 4-22-04

F.A.P. NO.	
S.H.A. NO.	AT3565185
COUNTY:	PRINCE GEORGE'S
LOG MILE:	16020206.73

TS NO.	815D
T.I.M.S. NO.	

SHEET NO.
2 OF 2